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KALININ, V.I.

Unity of the organism and its habitat. Uch. zsp. VGPI 27:
255-266 '62. (MIRA 16:8)

(Glands)

(Atmospheric pressure—Physiological effect)

(Drugs—Physiological effect)

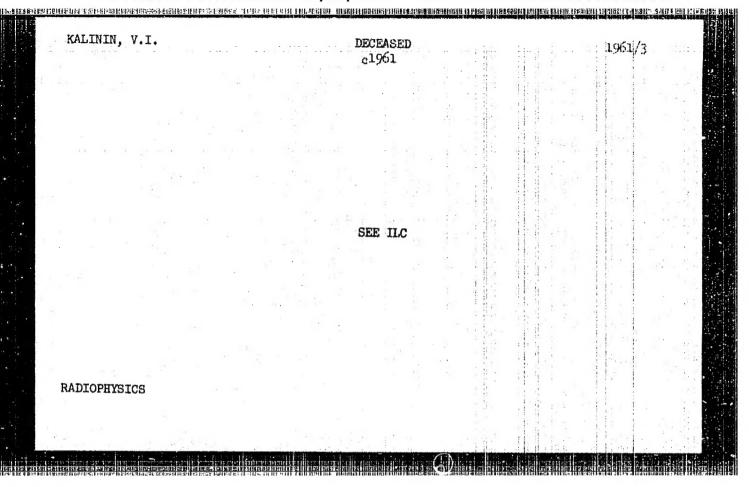
Phy	rsiology of fo	of fowl. Uch. zap. VGPI 27:267-27 (PoultryPhysiolog)		7 '62. (MJRA 16:8)	
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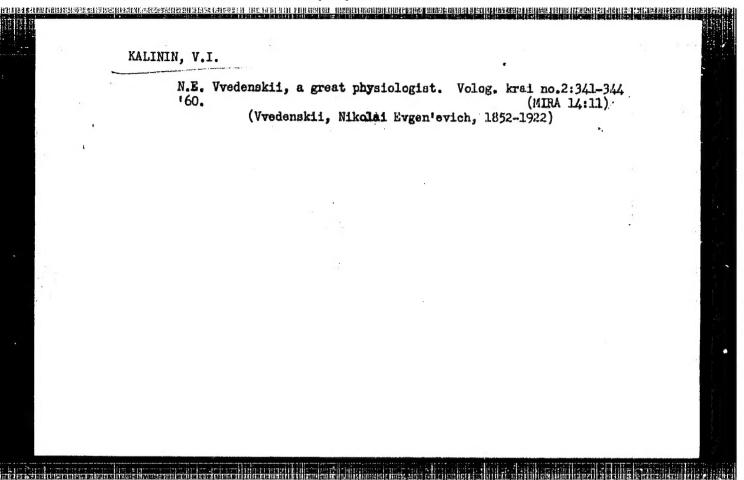
SHATILOV, I.S., kand. sel'khoz. naik; KALININ, V.I., red.

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SAZONOV, I.A.: KALININ, V.E., inshener, redaktor: MATSEYEVSKAYA, Ye.H., terhnicheskiy redaktor.

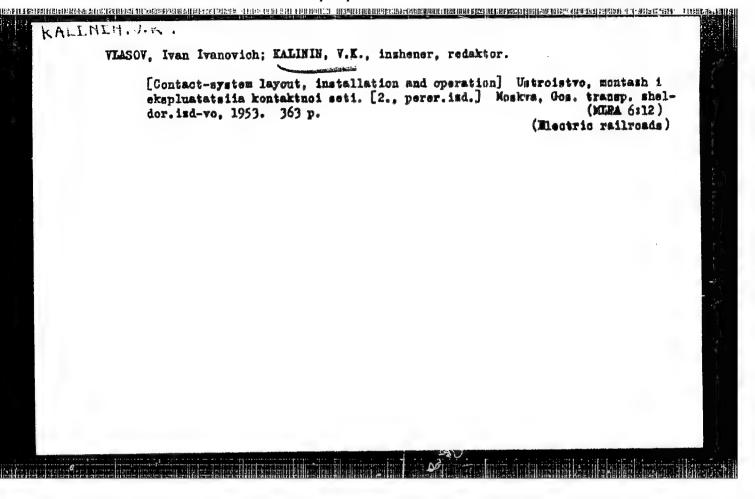
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OSIPOV, S.I.; MIRONOV, K.A.; KALININ, V.K., inzhener, redaktor; YUDZON, D.H., tekhnicheskiy relaktor

[Safety manual for electric locomotive brigades] Pamiatka po tekhnike bezopasnosti elektrovoznym brigadam. Moskva, Gos. transp. zhel-dor. izd-vo, 1953. 85 p. [Microfilm] (MLRA 9:8) (Electric locomotives--Safety measures)



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(Electric locomotives)

MOICHANOV, I.K.; KALIBIN, V.K., redaktor; KANDYKIN, A.Ye., tekhnicheskiy redaktor.

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[Economizing on electric power in electric railroad traction; work practice on the suburban electrified section of the Moscow-Ryasan line] Ekonomia elektricheskoi energii pri motorvagonnoi tiage. Opyt raboty na prigorodnom elektrifitsirovannom uchastke Moskovako-riasanskoi dorogi. Moskva, Gos. transportnoe shel.-dor. isd-vo, 1954. 31 p. (MIRA 8:1) (Electric railroads)

MEDEL: V.B., doktor tekhnicheskikh nauk; KALININ V.K. inzhener, redaktor; KHITROV, P.A., tekhnicheskiy redaktor.

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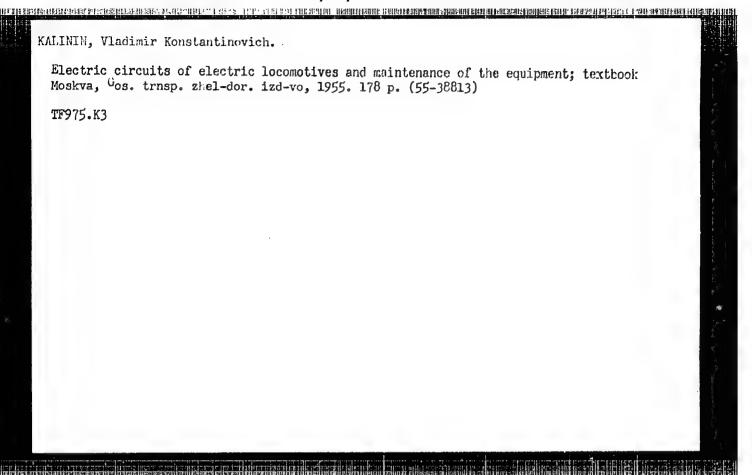
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TRAKHTMAN , L.M., kandidat tekhnicheskikh nauk, redaktor; KALININ, V.K., redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Electric locomotives on a single-phase current of industrial frequency] Elektrovozy odnofaznogo toka promyshlennoi chastoty.

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[Electric railroad rolling stock] Blektropodvinhnoi sostav sheleznykh dorog. Moskva, Gos.transp.zhel-dor. izd-vo, 1957. 723 p. (MIRA 11:2) (Electric railroads--Rolling stock)

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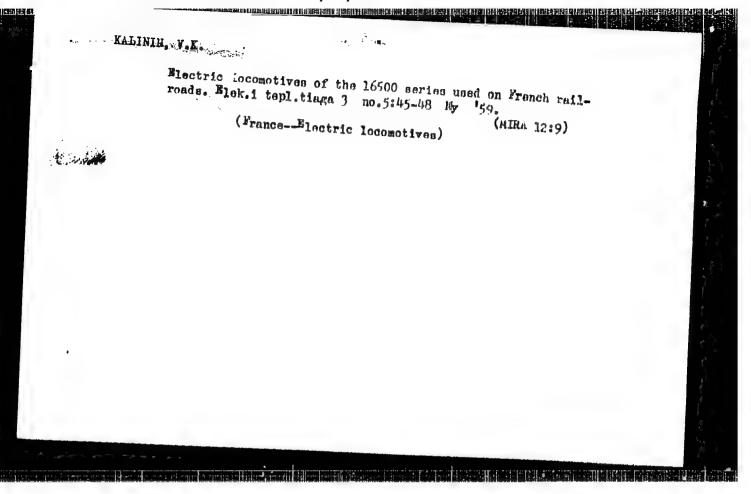
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BARANOV, A.M.; MIROSHNICHENKO, R.I.; SEGAL, L.G.; ADADUROVA, Ye.V.; KALININ, V.K., inzh.; red.; DLUGACH, B.A., kand.tekhn.nauk, red.; BOBROVA, Ye.N., tekhn.red.

8:4:0 | 3:5:

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Trudy MIIT no. 121:9-15 '60. (MIRA 14:4)

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KALININ, V.K., inzh.

Construction features and road test data for trucks built by the Kalinin Car Plant. Trudy MIIT no. 121:159-196 '60. (MIRA 14:4) (Car wheels—Testing)

The state of the s

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KURUASHOVA, Valentina Amatol'yevna; TOMFEL'D, Leonid Pavlovich; GOROKHOV, P.N., inzh., retsenzent; KOSTYUKOVSKIY, M.A., inzh., red.; KALININ, V.K., inzh., red.; GROMOV, Yu.V., tekhn. red.

[Inspection and maintenance of the electrical machinery of electric rolling stock]Osmotr i tekushchii remont elektricheskikh mashin elektropodvizhnogo sostava. Moskva, Transzheldorizdat, 1962. 102 p. (MIRA 15:11)

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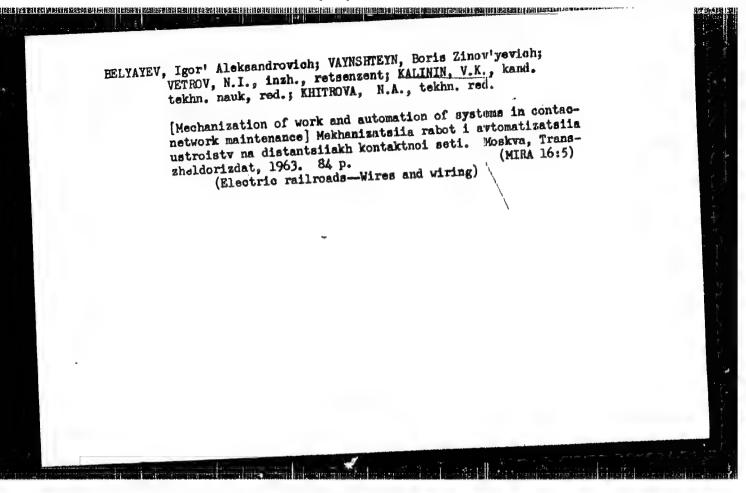
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[Electric relay of main line electric locomotives] Rele magistral'nykh elektrovozov. Moskva, Tranaheldorizdet, 1963.
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YANOV, Viktor Petrovich; KUROCHKA, A.L.; ALIKIN, R.I.; KOLYCHEV, G.K., insh., retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; DROZDOVA, N.D., tekhn. red.

[Auxiliary machines of main line d.c. locomotives] Vapomogatel'nye mashiny magistral'nykh elektrovozov postdiannogo toka. Moskva, Transsheldorisdat, 1963. 119 p.

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nauk; PLAKS, A.V., kand. tekhn. nauk, dota.; PRIVALOV, V.V.,
kand. tekhn. nauk; TREYMUNDT, N.D., kand. tekhn. nauk; VISIN,
N.G., kand. tekhn.nauk, retsenzent; KUCHMA, K.G., kand. tekhn.
nauk, retsenzent; FAMINSKIY, G.V., kand. tekhn.nauk, retsenzent;
KALININ, V.K., kand. tekhn. nauk, red.; VORCTNIKOVA, L.F., tekhn.

[Automation of electric rolling stock control systems] Avtomatizatsiia sistem upravleniia elektricheskim podvizhnym sostavom. Moskva, Transzheldorizdat, 1963. 214 p. (MIRA 16:7) (Electric railroads-Electronic equipment)

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KALININ, V.K., kand. tekhn. nauk; MIRONOV, K.A., insh.; Libvin, B.M., inzh.; Libman, G.M., inzh.; YERSHOV, Ye.F., inzh.; PANCHENKO, P.M., inzh.; BOLYCHEV, N.G., mashinist elektro-voza; ZOLOTAREV, V.N., mashinist instruktor; YANIN, I.A., inzh.; BOVE, Ye.G., kand. tekhn. nauk, red.; USENKO, L.A., tekhn. red.

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BENESHEVICH, I.I., kand. tekhn. nauk; OBLASYUK, V.Ya., kand. tekhn. nauk; SUKHOPRUDSKIY, N.D., kand. tekhn. nauk; SHALIMOV, M.G., kand. tekhn. nauk; BANVER, Z.M., inzh., retsenzent; KOLISH, L.G., inzh., retsenzent; NECHAYEV, N.A., kand. tekhn. nauk, retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; USENKO, L.A., tekhn. red.

[Automation and remote control in the power supply systems of electric railroads] Avtomatizatsiia i teleupravlenie ustrcistvami energosnabzheniia elektricheskikh zheleznykh dorog.

[By] I.I.Beheshevich i dr. Moskva, Transzheldorizdat, 1963.

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YERSHOV, Ye.F.; ZAYTSEV, M.V.; GORODETSKOV, A.P., inzh., retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; VASIL'YEVA, N.N., tekhn. red.

[Operation of VL60 electric locomotives; experience of the Gorkiy railroad] Ekspluatatsiia elektrovozov VL60; opyt Gor'kovskoi dorogi. Moskva, "Transport," 1964. 62 p.
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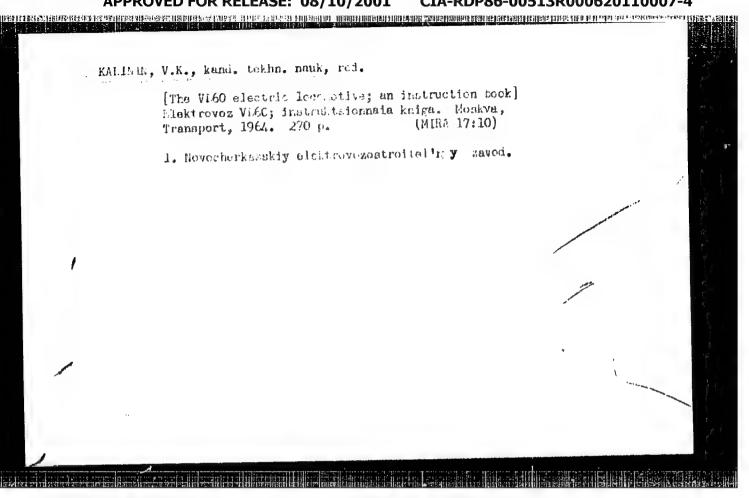
MIKHEYEV, V.P.; ACEYEVA, I.A.; SDV_ZHKOV, N.S.: VETROV, N.I., inzh., retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; MURAV'YEVA, N.D., tekhn. red.

[Decreasing the wear of contact wires; work practice of the staff of the West Siberian railroad] Umen'shenie iznosa kontaktnykh provodov; cpyt raboty kollektiva Zapadno-Sibirskoi dorogi. Moskva, Izd-vo "Transport," 1964. 89 p. (MIRA 17:3)

LATUNIN, Nikolay Ivanovich; OKHOSHIN, Leonid Ivanovich; ZATUCHRYY,
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KALININ, Vladimir Konstantinovich, kand. tekhn. nauk; MIKHAYLOV, Nikolay Mikhaylovich, kand. tekhn. nauk; DURANDIN, G.B., inzh., retsenzent; ROGOVA, Ye.N., inzh., retsenzent; KRASKOVSKAYA, S.N., inzh., retsenzent; DUBROVSKIY, Z.M., inzh., retsenzent; KALIKHOVICH, V.N., inzh., retsenzent; RAKOV, V.A., red.

[Rolling stock of electric railreads] Elektro-podvizhnoi sostav zheleznykh dorog. Izd.2., perer. Moskva, Transport, 1964. 498 p. (MIRA 18:1)

KALININ, V.L.

Electric switch panel for drilling rigs. Rasved. 1 okh.nedr
24 no.10:50-51 0 '58. (MIRA 12:2)

1. Belgorodskaya shelszorudnaya ekspeditniya.

(Electric switchgear)

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31057 \$/126/61/012/004/019/021 E073/E535

AUTHORS:

Dunayev, F.N. and Kalinin, V.M.

TITLE:

On the longitudinal and transverse magnetostriction

of electrical steel

PERIODICAL: Fizika metallov i metallovedeniye, v.12, no.4, 1961,

619-620

TEXT: Earlier investigations by V. V. Druzhinin et al. (Ref.1: FMM, 1957, 5, 164; Ref.2: Zavodskaya laboratoriya, 1954, 2, 207) on iron-silicon alloys containing 0.4 to 7.0% Si, using wire strain gauges which were not glued onto the specimens, showed that in most cases the transverse magnetostriction as well as the longitudinal magnetostriction had positive values. The authors of this paper carried out experiments with glued on strain gauges which yielded data differing from those obtained by Druzhinin et al. The measurements were made on 250 x 30 mm² strips and 30-45 mm diameter discs of various steels. To eliminate the influence of possible bending on the measured results, the strain gauges forming the arms of the measuring bridge were glued on in pairs to both sides of the specimen. The

Card 1/1/2

On the longitudinal and ...

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sensitivity of the metering arrangement was about 10^{-7} mm⁻¹. Magnetization was by means of a solenoid. The main results on the longitudinal and transverse magnetostriction are entered in a table, where λ_{\max} is the maximum magnetostriction on the $\lambda(H)$ curve and λ is the magnetostriction in a magnetic field of 1200 Oe. It can be seen from the table that in the case of the hot-rolled steels $\exists 11$ ($\exists 11$), $\exists 31$ ($\exists 31$), $\exists 42$ ($\exists 42$) and the cold-rolled steel $\exists 310$ ($\exists 310$) the longitudinal magnetostriction λ_{11} and the transverse magnetostriction λ_{12} have opposite signs. One of the possible causes why Druzhinin obtained positive values for λ_{13} is interaction of the strain gauge wire, along which there is a flow of d.c. current, with the magnetic fields of the electromagnet and the specimen. There are 1 table and 3 references: all Soviet.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet imeni

A. M. Gor'kogo (Ural State University imeni

A. M. Gor'kiy)

SUBMITTED:

March 24, 1961

Card 2/3/2

S/126/61/012/006/019/023 E073/E535

AUTHORS: Dunayev, F.N. and Kalinin, V.M.

TITLE: On the effect of shape in linear magnetostriction

PERIODICAL: Fizika metallov i metallovedeniye, v.12, no.6, 1961,

915-917

TEXT: H. E. Stauss (Ref.5: J.Appl.Phys., 1959, 30, 698) has shown that the shape effect for an ellipsoid in a longitudinal uniform field represents deformation by compression and he proposed a formula for calculating the shape effect when magnetizing the specimen above saturation. Stauss has also shown that in the general case the shape effect includes not only the change of the magnitude of deformation of the specimen as a result of interaction of the magnetic poles but also the change in deformation caused by interaction of these poles with the magnetizing apparatus. To determine the effect of shape, the authors used 5 x 5 mm rods, 100 mm long and additional 200 mm rods of the same cross-section and the same material. Specimens of iron with silicon contents of 1.05 and 4.10% were chosen to obtain a low magnetostriction and a sufficiently high saturation Card 1/3

On the effect of shape in ...

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magnetization; this enabled easier detection of the influence of shape. After machining, the specimens were subjected to high temperature annealing in vacuo at 1100°C for two hours. The linear magnetostriction and the magnetization were measured initially on the 100 mm long specimen on its own and then on this same specimen to which was added the 200 mm long specimen. The magnetostriction was measured by glued-on strain gauges the magnetization was measured ballistically using a differential coil. The solenoid used had a uniform field for a length of 580 mm and a maximum field strength of 1200 Oe. The results, which are plotted in the paper, indicate that for the specimen containing 1.05% Si, for which the magnetostriction changes from positive to negative, as well as for the specimen containing 4.1% Si, for which the magnetostriction has only positive values, the difference in the magnetostriction values ΔA_{\parallel} of the short specimen and the specimen with the longer one added is negative for the same value of magnetization. The dependence of ΔA_{\parallel} on the square of the magnetization I^2 is approximately linear. However, additional investigations are required on this point, since the experimental Card 2/3

On the effect of shape in ...

S/126/61/012/006/019/023 E073/E535

values are such that they would allow plotting a curve which is slightly convex viewed from the I² axis. There are 2 figures and 6 references: 1 Soviet-bloc and 5 non-Soviet-bloc. The English-language references read as follows: Ref.2: Birss R. Adv.Phys., 1959, 8, No.31, 252; Ref.3: Gersdorf R.J. J.Appl.Phys., 1959, 30; 2018; Ref.4: Gersdorf R. Physica, 1960, 26, 553; Ref.5: Quoted in text,

ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo

(Ural State University imeni A. M. Gor'kiy)

SUBMITTED: May 10, 1961

Card 3/3

DUNAYEV, F.N.; KALININ, V.M.

Longitudinal and transverse effect of the shape of ellipsoid specimens of iron-silicon alloys. Fiz.met.i metalloyed. 13 no.1:153-154 Ja '62. (MIRA 15:3)

1. Ural'skiy gosudarstvennyy universitet imeni Gor'kogo. (Iron-silicon alloys--Testing)

以对称,这种的经验的关系是不是这种的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们也是一个人的人,

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DUNAYEV, F.N.; KALININ, V.M.

1

Effect of the longitudinal and transverse shape on the magnetostriction of iron ellipsoids. Fiz. met. i metalloved. 14 no.3: 462-464 S 162. (MIRA 15:9)

l. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo. (Magnetostriction)

DUNAYEV, F.N.; KALININ, V.M.; SERIKOV, V.V.

Anisotropy of volumetric magnetostriction. Fiz.met.1 metalloved. 14 no.5:781-783 N '62. (MIRA 15:12)

 Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo. (Magnetostriction)

S/126/63/015/002/002/033 E039/E420

AUTHORS: Dunayev, F.N., Kalinin, V.M.

Card 1/2

TITLE: Volume magnetostriction of iron and iron-silicon alloys

PERIODICAL: Fizika metallov i metallovedeniye, v.15, no.2, 1963, 170-174

TEXT: An experimental investigation of the dependence of volume magnotostriction on composition for Si content from 0 to 6.79% by weight. Experimental data on the magnitude, sign and characteristics of the change in volume magnetostriction provide valuable information on magnetic and exchange interactions in ferromagnetics. Samples are prepared in the form of allipsoids of revolution with major axes of about 150 mm and minor axes of about 5 or 10 mm, giving volumes of about 2300 and 7700 mm3 respectively. All samples were heated at 900°C in a vacuum for 3 hours and then cooled at 100°C per hour. The volume magnetostriction was measured by a dilatometric method using distilled water as the dilatometer fluid. Fields of up to \$000 00 were provided by means of a solenoid and errors of measurement were It is shown that the volume magnetostruction with depends linearly on the field H for Fe and Fe-Si alloys over

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5/126/63/015/002/002/033 Volume magnetostriction ... E039/E420 range 600 to 5700 0e. Over the investigated range the value of δω/θH increases with increase in Si content from 6.4 x 10-1008-1 for pure iron, to 13 x 10-100e-1 for the alloy with 6.79% Si. isotropic constant for true magnetostriction is calculated and varies from 2.13 x 10^{-10} for pure iron to 4.35 x 10^{-10} for the 6.79% Si alloy. The dependence of Ow/OH on Si content is dus to the increase in the critical exchange integral. Over the investigated range the points for the Fe-Si alloys are displaced to the left of the Bethe-Slater curve. There are 2 figures and l table. ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo (Ural State University imeni A.M.Gor!kiy) SUBMITTED: June 30, 1962

DUNAYEV, F.N.; KALININ, V.M.; DRUZHININ, V.V.

Longitudinal and transverse magnetostriction of iron-silicon steels. Fiz. met. i metalloved. 15 no.5:652-657 My '63.

(MIRA 16:8)

1. Ural'skiy gosudarstvennyy universitet im. Gor'kogo i Verkh-Isetskiy metallurgicheskiy zavod.

(Iron-silicon alloys—Magnetic properties)

ADAMESKU, R.A.; KALININ, V.M.; KUDRYAVTSEV, I.P.

Effect of annealing in a magnetic field on the magnetic and crystalline structure of ferrosilicon. Izv. vys. ucheb. zav.; fiz. no.5:69-74 164. (MIRA 17:11)

l. Ural'skiy politekhnicheskiy institut imeni Kirova i Ural'skiy gosudarstvennyy universitet imeni Gor'kogo.

L 62911-65 EWT(m)/EMP(w)/EMA(d)/EMP(t)/EMP(u)/EMP(b) m//m

ACCESSION NR: AR5019140

UR/0137/65/000/007/1026/1026

SOURCE: Ref. zh. Metallurgiya, Abs. 71169

AUTHOR: Dunayev, F., N.; Kalinin, V. M.

TITLE: Longitudinal, transverse, and volumetric effect of the shape of ferromag

netic materials

CITED SOURCE: Sb. Niz. magnitn, yavjeniy, Sverdlovsk, 1364, 57-76

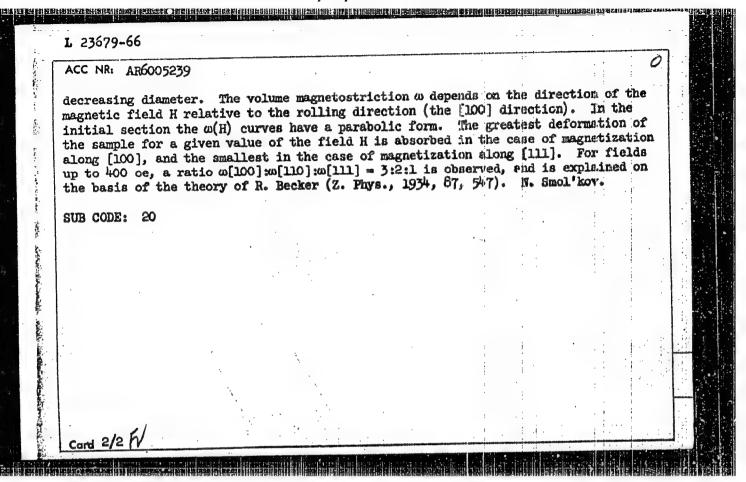
TOPIC TAGS: ferromagnetic material; polycrystal, compressive stress, tensile stress, external magnetic field, homogeneous magnetic field

TRANSLATION: The longitudinal effect of the shape ΔA_{11} of polyhrystalline ferromagnetic materials in a homogeneous external magnetic field consists of compression strain, and not of dilatational strain. For determination of the magnitude of the spontaneous longitudinal magnetostriction in samples with a sufficiently large demagnetization factor, it is necessary not to calculate, but to add the value of ΔA_{11} to the measured magnitude of ΔA_{11} . The transverse effect of

Card 1/2

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L 62914-65							
ACCESSION	NR: AR5019140					16.	
ACCESSION	REGULTA						
the shape A	A22 of polycrys	talline ferroməgne	etic materi	als consists	of dilat	nioml	
strain. To	determine the n	nagnitude of the sp	ontaneous t	ranuversė i	magnetos	ficie-	
tion from th	e measured value	ue of \Ls, it is no	ecessary to	calculate 4	A22. T	hia ii	
		pe of polycrystalli fect of the shape of				110	
•	-	hanges its sign wit	•			reen	
-			-				组制
	and the poles.						31133
		with small gaps, os it consists of co					
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PAR PLANCES NECTOR PROGRAMMANT CONTROL ENT(1)/EWT(m)/EWA(d)/EWP(t)/EWP(k) IJP(c) JD/HII L 23679-66 SOURCE CODE: UR/OX/58/65/000/009/E134/E135 ACC NR: AR6005239 SOURCE: Ref. zh. Fizika, Abs. 9E1111 AUTHORS: Dunayev, F. N.; Kalinin, V. M.; Maysinovich, V. I. TITLE: Anisotropy of longitudinal, transverse, and volume shape effect REF SOURCE: Sb. Fiz. magnitn. yavleniy. Sverdlovsk, 1964, 77-85 TOPIC TAGS: magnetostriction, steel, material deformation, magnetic anisotropy/ E310 steel TRANSIATION: With the gid of the method of strain-gauge pickups, the authors investigated the longitudinal and transverse magnetostriction Al and Al of single crystals of cold-rolled steel E310. Tt is established that with decreasing diameter of a sample prepared in the form of a disc whose surface coincides with the (110) plane, i.e., with increasing demagnetizing factor, the magnetostriction & in the [100] direction, which has a positive sign, decreases for each value of the field H, i.e., the disc experiences compression deformation, due to the shape effect, in the direction of the field H. However, the variation of λ_{\parallel} can be also influenced by the change in the magnetic structure. The magnetostriction λ_{\parallel} in the [100] direction has a negative sign and it also decreases in absolute magnitude with decreasing diameter. In the [110] direction, the value of λ_{\parallel} is also positive and also decreases with decreasing diameter, whereas λ_{\perp} , which has a negative sign, increases in absolute magnitude. In the [111] direction, λ_{\parallel} and λ_{\perp} are negative and decrease in absolute magnitude with Card 1/2



L 23680-66	
ACC NR:	Dunayev, F. N.; Kalinin, V. M.; Maysinovich, V. I.
marmar ma	Crystalline effect and exchange magnetostriction of the Bess in iron-silicon alloys
SOURCE:	Ref. zh. Fizika, Abs. 9E1112
ı	RCE: Sb. Fiz. magnitn. yavleniy. Sverdlovsk, 1964, 86-99 GS: paramagnetism, magnetostriction, iron alloy, silicon paramagnetic anisotropy, heat treatment, steel/E310
containi	ng alloy, magnetic different and the volume magnetostriction
	region of the crystalline effect (%c) steel with tex-
ture (1:	10) [001]. The polycrystalline samples had the local mag- f revolution and plates, whose shape ensured homogeneous mag-
anneale	d in vacuum of 10 ⁻¹⁴ mm Hg at 9000 for four hours with subse- Z

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620110007-4"

L 23680-66

quent cooling at a rate of $50^{\circ}/\text{hr}$. The value of ω was determined by a dilatometric method. The sensitivity of the installation in measurement of ellipsoidal samples was 5×10^{-8} , and that of the plates was 1.8×10^{-8} . The magnetization was carried out in a solenoid, which made it possible to obtain a magnetic field up to 6000 Oe, uniform within 5% in a section 150 mm long. The measurement error was 2 - 5%. It is shown that $\partial \omega_p / \partial H$ increases with increasing S1 content from 6.4×10^{-10} for Fe to 13×10^{-10} Oe⁻¹ for an alloy containing 6.79% S1. This is brought about by the fact that the 'slope' of the effective exchange integral essentially increases, apparently because of the decrease in the lattice parameter with increasing Si content. ω_c of cold rolled seel was investigated. The largest value of ω_c was observed in the [111] direction, and the smallest in the [100] direction. Measurement of ω_c of single crystals make it possible to determine the value of $(\kappa_1)^{-1} \partial \kappa_1 / \partial r$ which characterizes the change in the magnetic anisotropic constant

Card 2/3

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L 23680-66
ACC NR: AR6005240

during hydrostatic compression. For an alloy with 3.2% S1,

(1/K₁)∂K₁/∂P ≈ - 70 x 10⁻⁷ atm⁻¹. An anisotropy of ω_p is observed.

Yu. Avraamov.

SUB CODE: 20

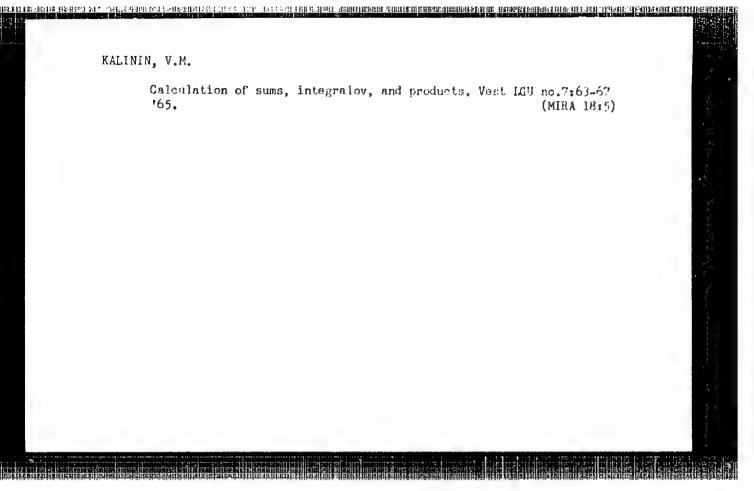
DUNAYEV, F.N.; KALININ, V.M.; MAYSHHOVICH, V.1.

Anisotropy of the crystal effect of the volume magnetostruction

in the spin paramagnetism of iron-silicon alloys. Fiz. met. i metalloyed. 18 no.2:318-320 Ag 164.

(MIRA 18:8)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Ger'kogo.



DUNAYEV, F.N.; KALININ, V.M.; KRYUKOV, I.P.; MAYSINOVICH, V.I.

Magnetization saturation of the Co-Pt alloy. Fiz. met. i.
metalloved. 20 no.31460-462 5 65.

(MIRA 18:11)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo
i Institut fiziki metallov AN SSSR.

L 46286-66 EVT(m)/EVP(t)/ETI IJP(c) JD/HW/JG SOURCE CODE: UR/0126/65/020/003/0460/0462 ACC NR: AP5025335 AUTHOR: Dunayev, F. N.; Kalinin, V. M., Kryukov, I. P.; Maysinovich, V. I. ORG: Ural State University im. A. M. Gor'kly (Ural'skiy gosuniversitet); Institute of Physics of Metals, AN SSSR (Institut fiziki metallov AN SSSR) TITLE: The magnetic saturation intensity of Co-Pt alloy SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 3, 1965, 460-462 TOPIC TAGS: cobalt alloy, platinum alloy, magnetic saturation . TEMPERATORE. DEPENDENCE ABSTRACT: The thermal dependence of the specific magnetic saturation intensity of a Co-Pt alloy of nearly equiatomic composition was determined from liquid nitrogen, temperature to 700K, in order to study the nature of the high coercivity of such magnets. 4Spherical samples of 3.8 mm diam were prepared. Their specific magnetic saturation intensity was measured after 30 min heating at 1000C, cooling at a rate of 1.3C/sec, and annealing 3, 6, 9, or 13 hr at 600C using fields up to 80kOc for magnetization. The specific magnetic saturation intensity increased with field strength and decreased with annealing time and with the temperature at magnetization, reaching a maximum of 43.5 G-cm³-g⁻¹ for tempered and not annealed samples The results indicate that magnetization of the tetragonal and well defined phase, formed during UDC: 538,114,248

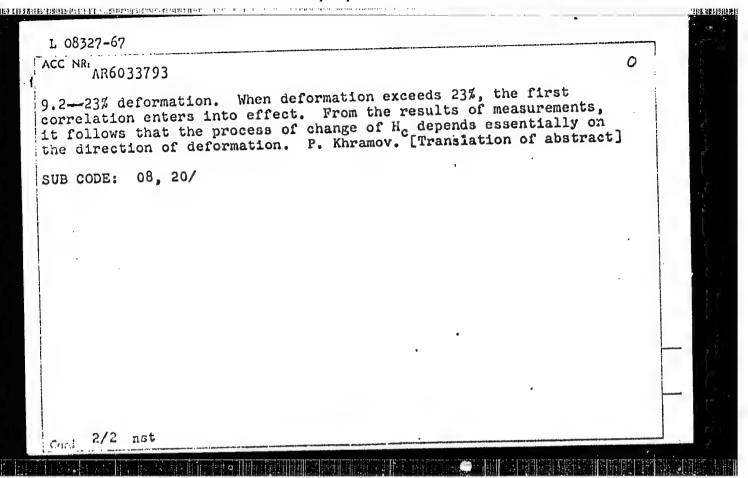
L 16286-66

ACC NR. AP69252828

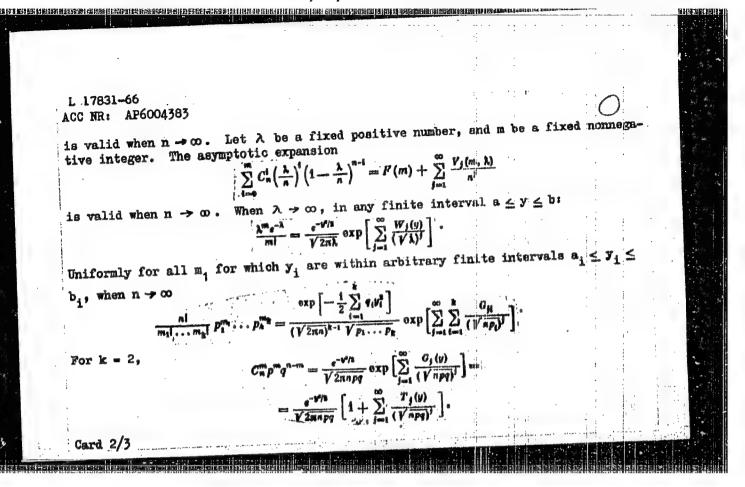
the annealing process, is 35-40% lower than that of the cubic disordered phase generated at 350C and higher temperatures. The authors thank R. Z. Levitin for making available information on the method of measuring magnetization in pulse fields before its publication. Orig. art. has: 3 figures.

SUB CODE: 11,20/ SUBM DATE: 21Aug64 / ORIG REF: 004/ OTH REF: 002

1JP(c) EWP(m)/EWP(t)/EPI L 085.7-67 SOURCE CODE: UR/0058/66/000/007/E110/E110 ACC ING AROUS3793 31 Mishin, D. D.; Novikov, V. F.; Kalinin, V. M. AUTHOR: TITLE: The coercive force of plastically deformed ferrosilicon crystals SOURCE: Ref. zh. Fizika, Abs. 7E830 REF SOURCE: Uch. zap. Ural'skogo un-ta. Ser. fiz., vyp. 1. 1965, 63-68 TOPIC TAGS: iron, silicon single crystal, plastic deformation, ferrosilicon, anistropy ABSTRACT: The anisotropy of the coercive force H and the magnetostriction saturation λ of Fe-Si single crystals deformed by stretching in the direction [110] (110) was investigated. Research was conducted on disk-shaped samples. H measurements were made in three basic crystallogra hic directions on an astatic magnetometer with a 700-erg magnetizing field. Tensometric measurements were made of λ_s in fields of up to 1900 erg. Measurements showed that plastic deformation of Fe-Si single crystals in the direction [110] (110) causes a quantitative change in the $H_{\rm C}$ value and a qualitative change in the $H_{\rm C}$ anisotropy. The inequality of $H_{\rm C}$ < $H_{\rm C}$ < $H_{\rm C}$ is fulfilled in the 0--92% The inequality of H_C[001] >H_{c[lll]} >H_c[110] is fulfilled for range. | Card 1/2



SOURCE CODE: UR/0020/66/166/003/0530/0532 17831-66 AP6004383 Kalinin, V. M. AUTHOR: ORG: none TITLE: Asymptotic expansions for frequently encountered probability distributions SOURCE: AN SSSR. Doklady, v. 166, no. 3, 1966, 530-532 TOPIC TAGS: asymptotic expansion, probability, distribution function, normal distribution, polynomial ABSTRACT: The problem of refining the limit theorems on the convergence of hinomial and polynomial distributions to normal and Poisson, Student distributions to normal, etc., is formulated. Let $\lambda_1, \dots, \lambda_{k-1}$ be fixed positive numbers; $m_1, \dots, m_k + 1$ fixed nonnegative integers; $\lambda = \lambda_1 + \cdots + \lambda_{k-1}, m = m_1 + \cdots + m_{k-1}$ Then for any $k = 2, 3, \dots$ the asymptotic expansion $\frac{n!}{m_1! \dots m_k!} (\lambda_1/n)^{m_1} \dots (\lambda_{k-1}/n)^{m_{k-1}} (1 - \lambda/n)^{m_k} =$ Card 1/3



L 17831-66

ACC NR: AP6004383

When $n \to \infty$, at an arbitrary fixed θ uniformly relative to a $\# y_1 \not = y_2 \not = b$

$$\sum_{i=y+1}^{y+1} C_n^i p^i q^{n-i} = \sum_{y_i}^{y_i} \varphi(y) \ dy + \sum_{j=1}^{\infty} \frac{Q_j}{(\sqrt[j]{npq})^j}.$$

Uniformly relative to y in any finite interval $a \leq y \leq b$

$$\frac{\Gamma((n+1)/2)}{\sqrt{\pi n}\Gamma(n/2)}(1+y^{8}/n)^{\frac{n+1}{8}} = \varphi(y) \exp\left[\sum_{j=1}^{\infty} \frac{K_{j}(y)}{n^{j}}\right] = \varphi(y)\left[1+\sum_{j=1}^{\infty} \frac{P_{j}(y)}{n^{j}}\right],$$

where

$$K_{j}(y) = \frac{(-1)^{j}}{2} \left(\frac{y^{2j}}{j} - \frac{y^{2j+2}}{j+1} \right) - \frac{2^{j+1} - i}{j(j+1)} B_{j+1},$$

$$P_{j}(y) = \sum_{i} \frac{K_{1}^{v_{i}}(y) \dots K_{j}^{v_{j}}(y)}{v_{i}! \dots v_{j}!}$$

is an even polynomial of degree 4j. This paper was presented by academician Yu. V. Linnik on 10 May 1965. Orig. art. has: 16 formulas.

SUB CODE: 12/ SUBM DATE: 07May65/ ORIG REF: 003/ OTH REF: 003

Card 3/3

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000620110007-4"

JXT(cz) IJP(c) ENT(d)/T I. 011.81-66 UR/2517/65/079/000/0182/0197 ACCESSION NR: AT5018590 AUTHOR: Kalinin. V. H. AN. C. TITLE: Functionals connected with the Poisson distribution and the statistical structure of a text SOURCE: AN SSSR. Matematicheskiy institut. Trudy, v. 79, 1965. Raboty po matematic cheskoy statistike i teorii veroyatnostey (Papers on mathematical statistics and the theory of probability), 182-197 TOPIC TAGS: statistical analysis, probability theory, language, Poisson distribution ABSTRACT: It is assumed that a text (speech sample) is a discrete, stationary, random process. A text of N words is characterized by the following functionals: n(N) is the number of different words; n(m, N) is the number of different words, each of which is used m times; $r_m(N)$ is the number of different words, each of which is used more frequently than m times. The author is characterized by the collection of word-usage probabilities p_i ($i=1,\ldots,L$), where L is the capacity of the author's active vocabulary for the given text. The Edilowing three problems

L 01481-66 ACCESSION NR: AT5018590 are considered: 1) from the functionals of a text of No words to find the functionals of a text of length N (words); 2) to find the functionals of a text from the characterization of the author; 3) to determine the characterization of the author from the functionals of the text. It is assumed that word frequency follows the Poisson distribution and that the word probabilities agree with Zipf's harmonic law or with Mandelbrot's "canonical" law. The rank t of a word is its number in a list of words according to decreasing probabilities. The list is called a probability dictionary. The mathematical expectations of these functionals are derived to solve these problems. A linguistic interpretation is given, and experimental results are displayed for a sample text. Orig. art. has: 96 formulas, 9 tables. ASSOCIATION: none ENCL: 00 SUBMITTED: 004 OTHER: NO REF SOV: 003

88343

\$/024/60/000/006/010/015 E031/E413

16.9200 (1031,1121,1132)

Kalinin, V.N. and Makar'yev, B.M. (Leningrad)

AUTHORS:

TITLE:

The Investigation of Free Oscillations in Non-Linear Automatic Control Systems Using Logarithmic Frequency

Characteristics

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1960, No.6, pp.157-161

The elements of the system may be linear (L), non-linear (N) or complicated non-linear elements (K). The investigation is TEXT: made considering the characteristics as two families of either the amplitude or the frequency for fixed values of the other parameter, Consider first auto-oscillations in a system formed by shortcircuiting the K element. On the logarithmic scale, the transfer function splits into two parts and these two equations for the parameters of the auto-oscillations are solved graphically. stability of the auto-oscillations is determined using the Nyquist The second case considered is that of a system of the This case is of Again a graphical approach is adopted. criterion. interest because it is equivalent to a system comprising a linear The third and last case is that of a and a non-linear part. Card 1/2

88343 \$/024/60/000/006/010/015 E031/E413

The Investigation of Free Oscillations in Non-Linear Automatic Control Systems Using Logarithmic Frequency Characteristics

system of the form NL. For convenience the non-linear elements are divided into those with and those without hysteresis loops in their characteristics. The necessary conditions for the occurrence of auto-oscillations is the existence of general points on the curves of the logarithmically equivalent admittance and characteristic functions of the system. If these general points do not exist, this can be regarded as a sufficient condition for the absence of auto-oscillations. Systems with non-linear elements of the first class are more inclined to self-excitation than systems with elements of the second class. There are 4 figures and 2 Soviet references.

SUBMITTED: May 24, 1960

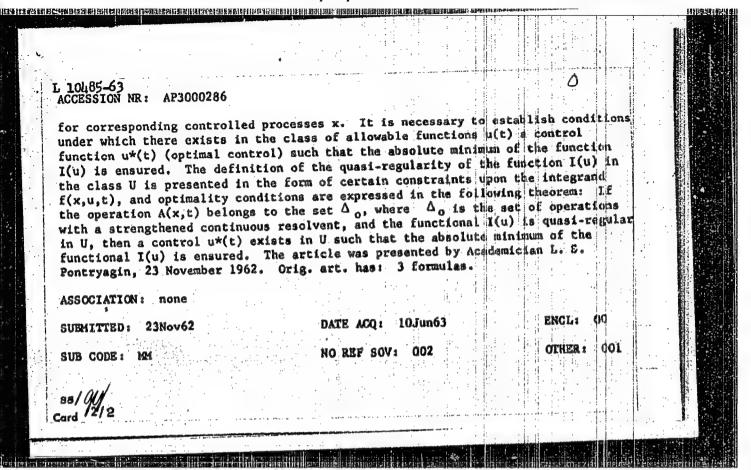
Card 2/2

AVDEYEV, A.I.; KALININ, V.N.; FRIDZON, M.V.

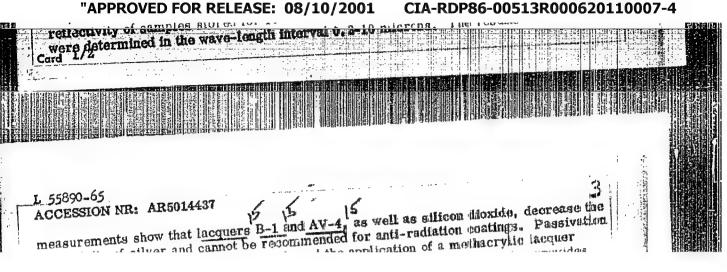
Protection of thermoreceivers from the thermal action of solar radiation when measuring temperature at great heights. Trudy TSAO no.41:86-90 '62.

(MIRA 16:10)

DATE HERRAREN PIRKON POLITIKON DILITIKKAN PERDEKAN PERDEKAN BERLANDER HER PER PER OPTILIEN UM HERRAREN DER BE ENT(d)/BDS--AFFTC/APGC/ASD--Pg-4/Pk-4/P1-4/Pd-4-Pd-4-BC/IJP(C) 1. 10485-63 \$/0020/63/150/001/0021/0022 AP3000286 ACCESSION NR: 74 AUTHOR: Kalinin, V. N. (Moscow) TITLE: The existence of an absolute minimum in a problem of the theory of optimal processes SOURCE: AN SSSR. Doklady, v. 150, no. 1, 1963, 21-22 TOPIC TAGS: optimal process, quasi-regularity, absolute minimum, functional quasi-regularity ABSTRACT: Definitions of the class U of allowable controls u(t), of the class Δ of operations A(u, x) determining the controlled process, and of the resolvent of an operation are given, and the problem of the optimal controll is formulated. The following functional is assumed: where f(x,u,t) is a function for which the integral (1) exists (in the sense of Lebesgue) and is bounded and unique for any allowable control function usU and

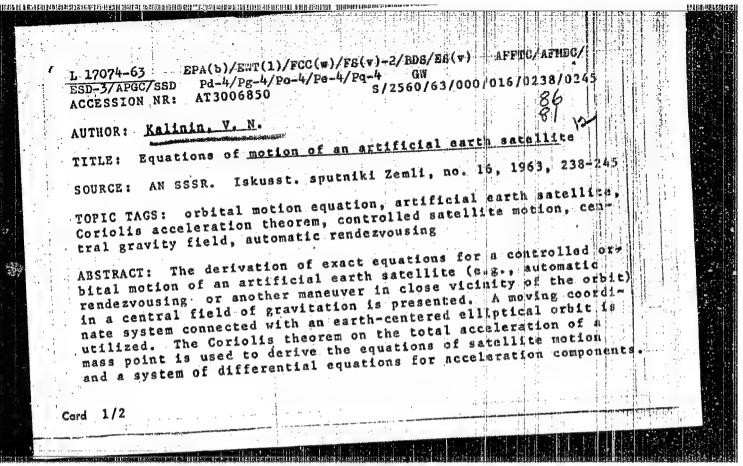


EWT(1)/EWT(m)/FCC/EWG(v)/EEC-4/EWF(h)/EEC(t)/EWA Fe-5/Pg-1/Pae-2/Peb/Pi-4 RM/GW UR/0169/65/000/005/B010/B010 ACCESSION NR: AR5014437 551.508 SOURCE: Ref. zh. Geofizika, Abs. 6892 AUTHOR: Avdeyev, A.I.; Fridzon, M.B.; Kalinin, V.N. TIPLE: The protection of temperature sensors against radiation CITED SOURCE: Sb. 150 let Meteorol. observ. Kazansk. un-ta. Kazansk. TOPIC TAGS: meteorological instrument, temperature sensor, stratosphere, anti-1963, 200-212 radiation coating, radiation error, silver passivation, silver reflectivity, lacquer coating, aluminum reflectivity TRANSLATION: Silver applied to a polished base has the best rellianting properties of all the coverings used for the protection of stratospheric temperature sensors against The unstable under the influence of atmospheric factors. The



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An approximate integration of these equations by applying the small-parameter method is briefly discussed. "The author exsmall-parameter method gratitude to F. M. Killin, B. I. Solomathikov, presses his profound gratitude to F. M. Killin, B. I. Solomathikov, presses his profound gratitude to F. M. Killin, B. I. Solomathikov, and Yu. Ya. Dmitriury for valuation of the article." Originable remarks made during the discussion of the article." Originals art. has: 2 figures and 46 formulas.

ASSOCIATION: none

SUBMITTED: 15Jul62 DATE ACQ: 08Aug63 ENCL: 00

SUB CODE: AS NO REF SOV: 001 OTHER: 602

L 16049-65 EWT(d)/EWP(1) Po-4/Pq-4/Pg-4/Pu-4/Pk-4/P1-4 IJF C WW/EC ACCESSION NR: AP4048822 S/0280/64/000/005/0039/0044

AUTHOR: Kalinin, V. N. (Leningrad)

TITLE: Theory of the approximate synthesis of an optimum control

SOURCE: AN SSSR. Izv. Tekhnicheskaya kibernetika, no. 5, 1964, 39-44

TOPIC TAGS: optimum control synthesis, approximate synthesis, linear control system, time optimum control

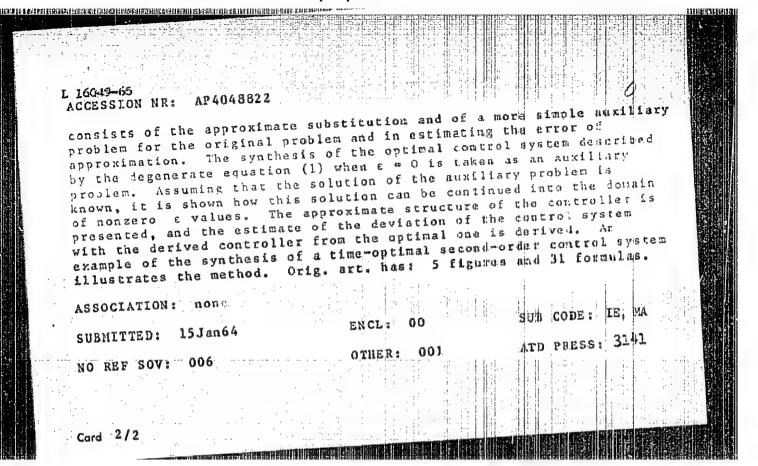
ABSTRACT: An approximate method is presented for the synthesis of the time optimal control system described by the linear differential equation of the form

 $\dot{x} = a(\varepsilon, t)x + bu, \tag{1}$

where x is an n-vector of the phase state of the system, a is an t^* r-control vector, $a(\varepsilon,t)$ is an n x n matrix, b is a doubtant n x r matrix, and ε is a small parameter. The essente of the method

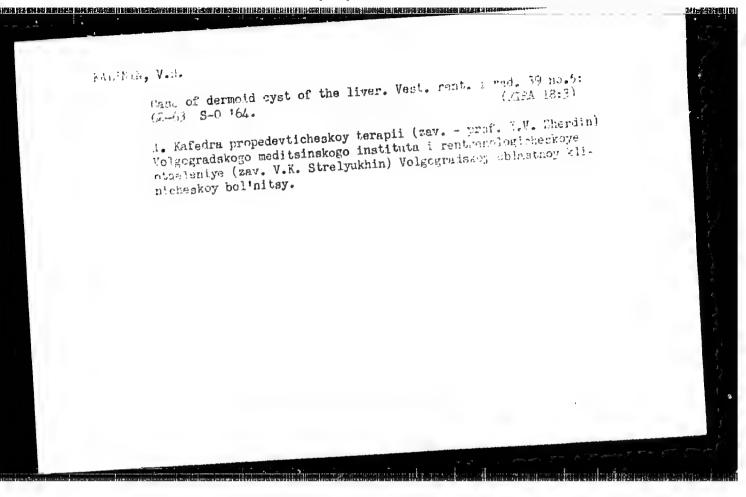
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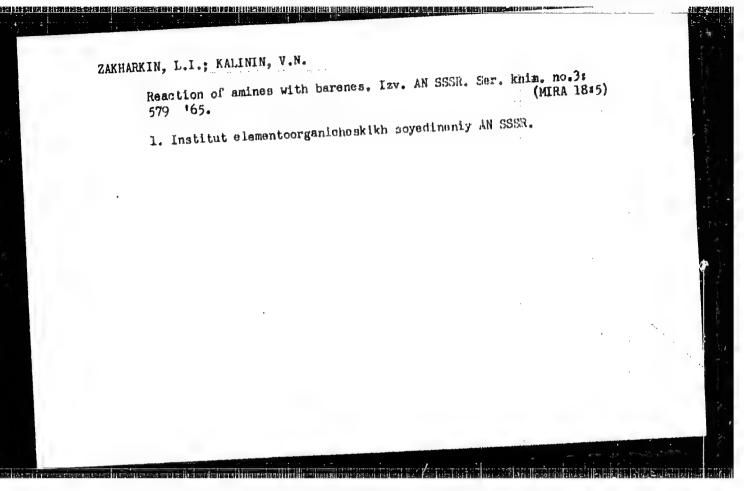
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L 41040-65 ENT(d)/EACCESSION NR: AF AUTHOR: Kalinin. TITLE: Generalized SOURCE: Avtomati TOPIC TAGS: optimalized optimalized automatic of the optimalized of the optimalized on consideral optimalized on consideral	v. N. (Leningrad) d optimality criteria ka i telemekhanika, mal control, optimal ontrol system, auto nality criteria are c several conventiona imal-control proble tion of an isoperime	lity, automatic commatic commatic control theo onsidered which as I integral function	s. 365-369 attidl, automatic corp re based on the relation in a nonclassion of double maining et forth for this fu	ation
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ZAKHARKIN, L.I.; KALININ, V.N.

Sequence of substitution in electrophilic halogenation of barenes (carboranes). Izv. AN SSSR. Ser. khim. no.7:1311 '65. (MIRA 18: (MIRA 18:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ENT(m)/EPF(c)/EPR/EWF(j)/EWA(c) Pc-4/Ps-4 1414人7年7月1 RPL L 58347-65

ACCESSION NR: AP5016063

UR/2020/65/163/001/0110/0112

AUTHOR: Zakharkin, L. I.; Kalinin, V. N.

TITLE: Conversion of barenes with amines into sales of dicarbaumde caborane

derivatives

SOURCE: AN SSSR. Doklady, v. 163, no. 1, 1965, 110-112

TOPIC TAGS: barene, borane, dicarbaundecaborane, organoboron

ABSTRACT: Contrary to the findings of some U.S. investigators, lit was found that amines react with barenes to form salts of dicarbaundecaborane derivatives. The reaction involves cleavage of the barene ring. Thus, barene reacts with piperidine to form an adduct of piperidine with the piperidinium salt of dicarbaumdecaboreme:

Mono- and disubstituted barenes react similarly with piperiding in benzeue or hexane. Unsymmetrically substituted barenes yield only one anion; this indicates that the or or atom is abstracted from a definite position in the barene malecule. Located symmetrically with respect to both carbon atoms, Orig. art. has: 2 figures and 1 for-[VS] mula.

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	L 58347-65 ACCESSION NR: AP5018083 ASSOCIATION: Institut elementa	ntorganicheskikh soyedite l Compounds, Academy of S	iniy Akadimii nauk SSSR Science, SBSR)	
	SUBMITTED: 31Dec64	ENCL: 00	SUB CORE: OC, GC	
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Preparation of B-hydroxybarenes: by the antion of nitric acid on barenes. Izv. AN SSCR. Ser. khim. no.91771; 165.

1. Institut elementoorganicheskikh soyedinenty AN 1899.

Eleavage of phenylneobarene by hydrazine into a phenylneodicumbaundecarborane anlon. Thur. ob. khim. 35 no.9,1691...
1092 5 165. (MIRA 18:10)

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EWT(m)/EPF(c)/EWP(j)/EWA(c) L 2558-66 RPL JW/RM ACCESSION NR: AP5025131 UR/0079/65/035/010/1882/1884 547.244 AUTHOR: Zakharkin, L. I.; Kalinin, V. N. TITLE: Synthesis of carboran- and neocarboran-amines SOURCE: Zhurnal obshchey khimii, v. 35, no. 10, 1965, 1882-1884 TOPIC TAGS: carborane, neocarborane, amine ABSTRACT: Carboran- and neocarboran-amines with the NH2-group at one of the C atoms of the carborane- or neocarborane ring have been synthesized for the first time. The synthesis proceeds in two steps: treatment of the respective and chlorides with sodium azide and heating of the azides formed with concentrated sulfuric acid. Carboran- and neocarboran-amines are soluble in concentrated H2BO4. Carboranamines are weak bases due to the electron acceptor effect of the carborane ring and to steric [BO] ASSOCIATION: none SUBMITTED: 15Mar65 ENCL: NO REF SOV: 000 SUB CODE: Card 1/1 mg OTHER: 000 ATD PRESS

L 18569-66 EWT(m)/EAP(j)/T WW/JW/JWD/RM

ACC NR: AP6002702

SOURCE CODE: UR/0062/55/000/012/2205/2209

AUTHORS: Zakharkin, L. I.; Kalinin, V. N.

ORG: Institute for Heteroorganic Compounds, Academy of Sciences, SSSR (Institute elementoorganicheskikh soyedineniy Akademii nauk SSSR)

TITLE: Certain rearrangements of phenylborane and phenylneoborane

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 12, 1965, 2206-2209

TOPIC TAGS: borane, boron compound, organoboron compound

ABSTRACT: A number of substituted phenyl and neophenyl boranes were synthesized to extend the work of L. I. Zakharkin, V. I. Stanko, and A. I. Klimova (Zh obshch. khimii 35, 39h, 1965) on the properties of boranes and neoboranes. The reaction yield, melting points, and UV spectra of ethanol solution of the synthesized compounds were determined. The experimental results are prepented in graphs and tables (see Fig. 1).

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UDC: 542.91+661.718.4